

Diode Junction Poly Fuse

ABSTRACT OF THE DISCLOSURE

System and method for providing an electrical fuse having a p-n junction diode. A preferred embodiment comprises a cathode, an anode, and one or more links formed between the cathode and the anode. The cathode and the portion of the link adjoining the cathode are doped with a first impurity, preferably a p-type impurity. The anode and the portion of the link adjoining the anode are doped with a second impurity, preferably an n-type impurity. The junction of the first impurity and the second impurity in the link forms a p-n junction diode. A conductive layer, such as a silicide layer, is formed over the p-n junction diodes. In an alternative embodiment, a plurality of p-n junction diodes may be formed in each link. One or more contacts may be formed to provide electrical contact to the cathode and the anode.